



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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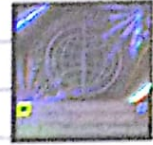


Job No.:CTCE/BBMP/KRIDL/W.No.13/CSR-04/610j/Cube/2018-19

10.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West) , KRIDL, Bangalore
* Name of the work	: Improvements RCC drains and roads at Anjaneya temple Surrounding area in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP Bangalore.
* Reference	: BBMP/EE/DD/Wo/291/2017-18 Dated:17.03.2018
* Sample ID	: RCC Drain bed Slab concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 10.05.2018



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.04.2018	10.05.2018	8.116	479.6	21.32
2	12.04.2018	10.05.2018	8.245	498.6	22.16
3	12.04.2018	10.05.2018	8.297	525.1	23.34

Information is furnished by the Customer/Representative.

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.



VIDYARANI P.K.
Technical Manager



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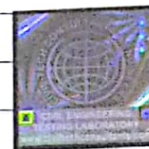


Job No.:CTCE/BBMP/KRIDL/W.No.13/CSR-04/610j/Cube/2018-19

18.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West) , KRIDL, Bangalore
* Name of the work	: Improvements RCC drains and roads at Anjaneya temple Surrounding area in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP Bangalore.
* Reference	: BBMP/EE/DD/Wo/291/2017-18 Dated:17.03.2018
* Sample ID	: Drain Covering Slab Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 18.05.2018



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.04.2018	18.05.2018	8.250	490.6	21.80
2	20.04.2018	18.05.2018	8.300	505.4	22.46
3	20.04.2018	18.05.2018	8.350	519.2	23.08

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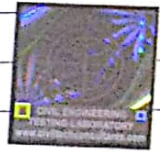


Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-III/Gradation/2018-19

Date 26.04.2018

TEST REPORT ON GRADATION FOR COARSE GRADED GRANULAR SUB BASE

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West) , KRIDL, Bangalore.
* Name of Work	: Improvements RCC drains and roads at Anjaneya temple Surrounding area in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP Bangalore.
* Reference	: BBMP/EE/DD/Wo/291/2017-18 Dated:17.03.2018
* Sample ID	: Coarse Graded - III
Technical Reference	: IS : 2720 (Part - 4)1985 (RA-2010), MORTH Table 400-2
Date of Testing	: 26.04.2018



Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specific Limit
26.5	0	0	0.00	100.00	100
4.75	3235	3235	64.70	35.30	25-45
0.075	1530	4765	95.30	4.70	<10
235	235				
Total	5000				



* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading III

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Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-III/AL/2018-19

26.04.2018

TEST REPORT ON ATTERBERG LIMITS TEST FOR GRANULAR SUB BASE

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of work	: Improvements RCC drains and roads at Anjaneya temple Surrounding area in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP Bangalore.
* Reference	: BBMP/EE/DD/Wo/291/2017-18 Dated:17.03.2018
* Sample ID	: GSB (Coarse Graded-III)
Technical Reference	: IS : 2720 (Part - 5) 1985 (RA-2010), MORTH Table : 400-1
Date of Testing	: 26.04.2018

Tests on filler screen materials (As per Table : 400-13)

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	24.00	25.0% Maximum.
	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading III

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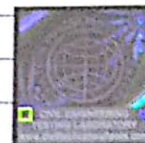


Job No: CTCR/BBMP/KRIDL/W.No.13/CSR-04/610/Pre cast slab/2018-19

26.04.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West) , KRIDL, Bangalore
* Name of work	:	Improvements RCC drains and roads at Anjaneya temple Surrounding area in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP Bangalore.
* Reference	:	BBMP/EE/DD/Wo/291/2017-18 Dated:17.03.2018
* Sample ID	:	Pre cast slab
* Grade of Concrete	:	M ₂₀
Technical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	24.04.2018
Date of Testing	:	26.04.2018



Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	82.00	0.415	2577.53	1.64	0.961	30.06	15.31	16.53	17.20	21.50
2	50.00	83.00	0.418	2564.89	1.66	0.963	31.56	16.07	17.36	18.02	22.53
3	50.00	84.00	0.420	2546.48	1.68	0.965	32.10	16.35	17.66	18.29	22.86

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